WORKSHEET 1

% (option c)

0.6666 (option A)

24 (option C)

2 (option A)

6 (option D)

It will always be executed irrespective pf error or not (option C)

It is used to raise an exception (option A)

In defining an iterator (option A)

_abc,abc2 (option A and C)

raise,yield (option A and B)

CODES:

```
.8]: import math

!0]: x=int(input("your number please:"))
     print(math.factorial(x),"is the required number!")

     your number please:4
     24 is the required number!

 ]:
```

```
x= int(input(" Please Enter any Number: "))
count = 0

for i in range(2, (x//2 + 1)):
    if(x % i == 0):
        count = count + 1
        break

if (count == 0 and x != 1):
    print(" %d is a Prime Number" %x)
else:
    print(" %d is not a Prime Number" %x)
```

```
Please Enter any Number: 44
44 is not a Prime Number
```

```
# a palindrome is a string in which first to last letter sounds exactly the last to first letter sounds.
a=input("please enter the string:")
if a==a[::-1]:
    print( a ,"is a palindrome")
else:
    print(a,"is not a palindrome")
```

```
please enter the string:taru
taru is not a palindrome
```

```
# To find the longest side of right angle triangle knowing the other two sides
p=int(input("Please enter the perpendicular:"))
b=int(input("Please enter the base:"))
h=np.sqrt(((p*p)+(b*b)))            # h is the hypotenous
print("The required value is:",h)
```

```
Please enter the perpendicular:6
Please enter the base:8
The required value is: 10.0
```

```python
#Calculate the frequency of each letter of the string
a = input ("Enter the string: ")
d = dict()
for x in a:
    if x in d:
        d[x] = d[x] + 1
    else:
        d[x] = 1
print(d)
```

```
Enter the string: tarushiagarwal
{'t': 1, 'a': 4, 'r': 2, 'u': 1, 's': 1, 'h': 1, 'i': 1, 'g': 1, 'w': 1, 'l': 1}
```

THANK YOU